Algebra I Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Unit 4 Assignment Sheet Hour \_\_\_\_\_

**Relations and Functions**

**YouTube: NHS Algebra 1**

Thurs Oct. 1 Unit 3 Exam   
**HW: Watch *Part 1* of Unit 4 Video**

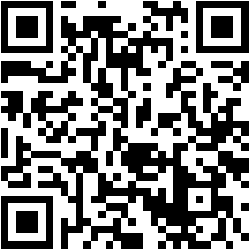
Fri Oct. 2 Independent/Dependent Variables

In class: *Assignment #1*

**HW:** **Watch Part 2**

Khan Academy Video

Mon. Oct 5 Tables/ Maps/ Graphs

In class: *Assignment #2*

Tues Oct. 6 Goal Quiz #1

Dimensional Analysis FUN day!

**HW:** **Watch Part 3**

Wed Oct. 7 Fall Break

Cool Math Practice

Function Notation

Thurs Oct. 8 Fall Break

Fri Oct. 9 Fall Break

🡪(Remember to watch **Part 3** by Monday**!) ☺ 🡨**

Mon. Oct 12 Functions & Relations

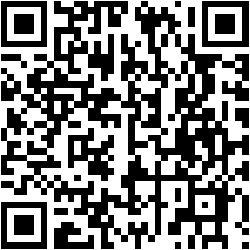
In class: *Assignment #3*

**HW: Watch Part 4**

Tues. Oct. 13 \*Video Study Guide is Due!\*

Function Notation

In class: *Assignment #4* and Goal Quiz #2



Wed. Oct. 14 In class: *Assignment #5,* Goal Quiz #3,& start *Review*

**HW:** Work on Unit 4 Review

Thurs Oct. 15 Unit 4 Review

Are you ready for the test?

Glencoe Self-Check Quizzes

Fri. Oct 16 Unit 4 Test (Review is due)

**GOAL: Students will be able to identify and evaluate functions and relations.**

0 - I cannot identify a function or a relation.

1 - I can distinguish between a relation and a function.

* I know that the x-values do not repeat in a *function*.

2 - I can identify the domain and range of a function or relation.

* Using a graph
* Using a table
* Using a map
* Using ordered pairs

3 - I can identify and evaluate functions and relations and explain what they mean in the context of a word problem.

* Identify independent and dependent variables
* Interpret and describe increases, decreases and constants on a graph
* Using function notation
  + Ex: f(x) = 3x + 5

f(3) = 3(3) + 5 = 14

f(q) = 3(q) + 5 = 3q + 5

4 – I can identify and evaluate functions and relations using negative numbers and squares.

* Using function notation
  + Ex: f(x) = x2 + 3

f(-3) = (-3)2 + 3 = 9 + 3 = 12

**Unit 4 Video Study Guide**

YouTube: NHS Algebra 1

**Part 1:**

1. Plant growth depends on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
2. Copies you’re able to make depends on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. Independent variable represents \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ( \_\_\_\_-values)
4. Dependent variable represents \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ( \_\_\_\_\_-values)

**Part 2:**

1. Transfer the *ordered pairs* into the table, map, and graph with Mrs. Williams. Label !

( ) ( ) ( ) ( ) ( )

|  |  |
| --- | --- |
| x | y |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |

1. Write the statement about functions with Mrs. Williams:

\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, it doesn’t matter “**y**” !

**Part 3**:

1. Why is the TABLE not a function? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. The “**S**” shaped graph is \_\_\_\_\_\_\_\_ a function because it doesn’t pass the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - \_\_\_\_\_\_\_\_\_\_ test.

**Part 4**:

1. Do **example #2**  with Mrs. Williams. Write down anything that she does!